MIT's Oldest and Largest Newspaper

thetech.com

The Tech
Established 1881

WEATHER, p. 2

THU: 32°F | 18°F
Partly Cloudy

FRI: 34°F | 23°F
Partly Cloudy

SAT: 37°F | 33°F
Wintry Mix

Volume 137, Number 6

Thursday, March 16, 2017

DAMIAN BARABONKOV—THE TECH

A snowstorm rolled through New England Tuesday, resulting in MIT's third snow day of the academic year.

Media Lab to award $250K for civil, non-violent disobedience

Follows trend of growing activism, increased "questioning of institutions"

By Drew Bent
STAFF REPORTER

The latest buzz around campus stems not from a startup or disruptive technology, but rather from principles more readily associated with Martin Luther King, Jr. and Mahatma Gandhi than MIT students.

The topic of civil disobedience has sparked conversation in pockets around MIT, and was recently brought into the spotlight by last week's launch of the Media Lab's Disobedience Award. The $250,000 award will go to an individual or group, anywhere in the world, that is engaging in "extraordinary disobedience for the benefit of society," according to the Media Lab.

Joi Ito, the director of the Media Lab who helped conceive the award, sees it as a way to support and encourage those furthering society even when laws get in the way.

Launching the award from the Media Lab, however, raises the issue of what disobedience has to do with the Media Lab and the broader MIT community.

In Ito's view, MIT is a place ripe for thoughtful disagreement, where creativity and controversial ideas are welcomed.

"We have everyone from Noam Chomsky to Richard Stallman, and I think that's kind of a hallmark of MIT — to be able to have all these people with diverse and somewhat controversial opinions," Ito said.

In addition to the award, a number of new initiatives that relate to civil disobedience have popped up across campus . Ethan Zuckerman, director of the MIT Center for Civic Media, said he is seeing more political activity on campus than there was two years ago.

Zuckerman helped start the Disobedience Award with Ito and LinkedIn co-founder Reid Hoffman, who serves on the Advisory Council of the Media Lab.

Zuckerman emphasized that the award was not a reaction to President Donald Trump's election, but rather a "reaction to a moment in time when a lot of people are questioning institutions." He views it as a 10-year political moment.

MIT students are taking notice. This past IAP, students self-ran a new course called "Activism, Organizing, and Social Movements." Over 200 people signed up.

The Media Lab has run its own events to raise awareness around disobedience. Last April, it hosted a Forbidden Research symposium, where the idea for the Disobedience Award was first announced.

MIT law clinics, which began in 2015 through a collaboration with Boston University, help students navigate the legal waters. This includes responding to objections from private or public institutions, such as cease-and-desist letters. The clinics were originally developed to fulfill a need for legal resources that had been missing when the MIT students and founders of a bitcoin-mining project were subpoenaed in 2014 by New Jersey's attorney general.

Students have also participated in more direct forms of activism. Since the November election, students in the groups MIT Resist and Solidarity MIT have been involved with protests in Washington, D.C., a solidarity rally on Killian Court, and an "MIT Values" statement that garnered over 1,800 signatures from the community.

Ito and Zuckerman both see the Media Lab's award as part of this longer journey. Ito believes it's important to follow guiding principles when resisting, but realizes that not everyone sees it the same way.

"I was talking to some kids at MIT, who were saying, you know, 'well those kind of non-violent protests don't work anymore, and those Gandhi days are over,'" Ito observed. He also saw younger people "doing reckless things and violent things."

Ito believes it is important "to be disobedient in appropriate ways," and in a non-violent and responsible manner.

Ito is known to defy norms himself. He dropped out of college — twice. When he was appointed to director of the Media Lab in 2011, *The New York Times* called it "an unusual choice."

In 2001, he engaged in his own acts of disobedience as he rallied against a proposed national ID system in Japan. Ito, who was born in

Media Lab, Page 2

MIT announces new Associate Dean for Diversity

MIT announced the creation of the position of Senior Associate Dean for Diversity and Community Involvement last Thursday. In an email to the community Suzy Nelson, vice president of the Division of Student Life, stated that Gustavo Burkett would fill the role.

Burkett is currently the director of student involvement at Boston College. He, an immigrant to the US from Argentina, is also working towards a Ph.D. in higher education and concentrating in social justice at the University of Massachusetts Boston.

The position involves helping to lead programs such as LBGTQ Services (Burkett himself is openly gay) and the Office of Multicultural Programs.

The announcement comes in the wake of increasing calls for diversity on campus. These include the MIT Black Students' Union's recommendations, created in 2015 in response to national events surrounding minorities in higher education. Although this new position is a step forward in fulfilling the recommendations, it does not satisfy the BSU's call for a diversity representative in every department.

More recent activism includes November's Solidarity Rally, at which students demonstrated support for marginalized groups on campus, and MIT Rainbow Lounge's "takeover" of departmental lounges.

— Olivia Brode-Roger and Anshula Gandhi

MARIANNE OLSEN

ESP's Spark 2017 brought hundreds of middle schoolers to campus for a variety of short classes taught by volunteers.

ADMITTED!

1,438 applicants out of roughly 20,000 have been admitted to the Class of 2021 as of Pi Day. Admittees originate from over 60 countries. Around 500 students were waitlisted. The number of applicants is up from last year, when 19,020 students applied.

MIT held a 24-hour fundraiser on Pi Day, ultimately raising $1.3 million from donations.

The funds will go towards MIT's efforts in "innovation, education, and research," CEO of MIT's Alumni Association Judy Cole wrote in an email to the MIT community.

IN SHORT

Shuttles to the airport will be provided by the Parking and Transportation Office on Friday, Mar. 24 and Saturday, Mar. 26. There is a $15 charge for the service, and shuttles will leave from Kresge Parking Lot. To reserve a seat, and to view more details, visit http://web.mit.edu/facilities/transportation/shuttles/airport.html.

The annual Dorm Electricity Competition, run by the UA Sustainability committee, will host the Green Building Challenge on Saturday, Mar. 18 from 2–5 p.m. The finale of the DEC will take place Wednesday, Mar. 22 from 7–9 p.m. in 3-270.

Congratulations to the newly accepted members of the Class of 2021! We are excited to welcome you to campus in the fall.

Send news and tips to *news@tech.mit.edu*.

HITTING THE BALL OUT OF THE PARK

Softball coach Jen Williams discusses team's unprecedented season. **SPORTS, p. 11**

THE PLIGHT OF GRADUATE FAMIIES

Westgate residents relying on food stamps, fathers without paid paternity leave, unaffordable infant care, and other issues unveiled. **OPINION, p. 4**

JACOB COLLIER RETURNS TO BOSTON

Grammy winner puts on a tech-filled, one-man show. **ARTS, p. 7**

CLASSICAL, BUT NEW

Ballet raises Bach to a new bar. **ARTS, p. 7**

SECTIONS

Opinion 4
Campus Life 6
Arts 7
Fun Pages 8
Sports 11

WEATHER

A chance of snow this weekend

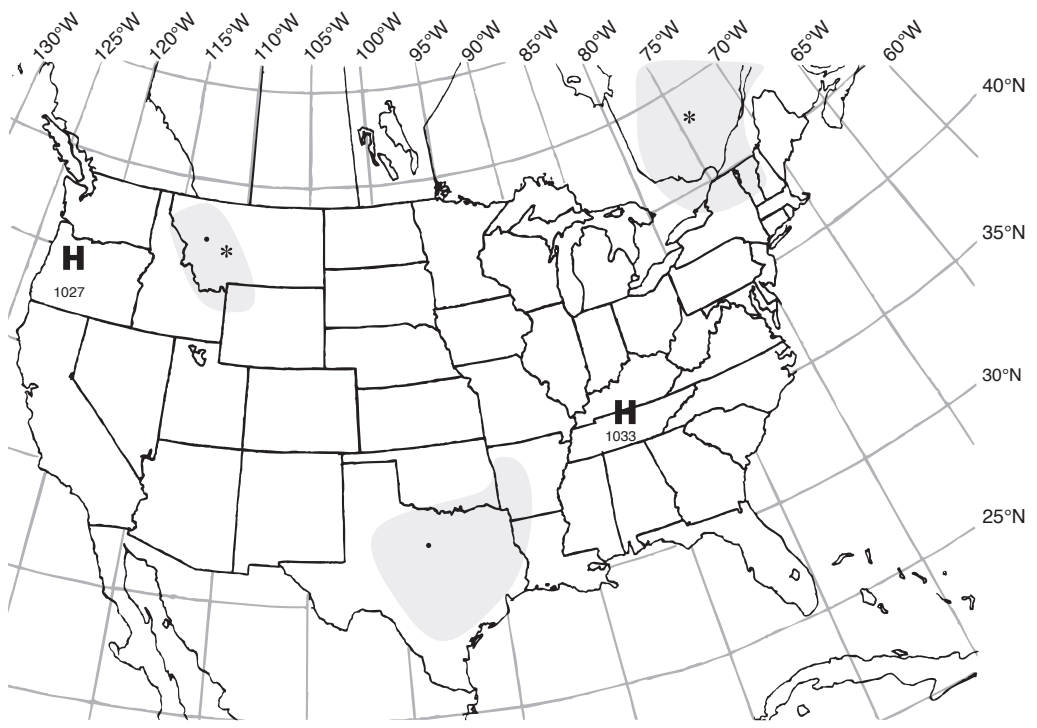
By Costa Christopulos
STAFF METEOROLOGIST

Tuesday's winter storm left parts of New England with two foot of snow and large snowfall gradients near the Atlantic coast. The center of the storm passed over southeast Massachusetts in the afternoon, drawing warmer air from its southeastern quadrant into many coastal areas. For Boston, strong easterly winds drew milder air off the ocean, helping switch snow over to sleet/rain and bringing snowfall totals to just several inches. Arlington, a city just to the northwest of Boston, reported 10.2". Even further to the west in east-central Massachusetts, some snowfall reports topped 20".

Looking forward, a large high pressure area will keep weather cool and dry through Friday, but an approaching system will potentially bring unsettled weather for the weekend. On Saturday morning, a weak low from central Canada swings through New England and redevelops just off of the Atlantic Coast. As the slow moving system travels to the northeast, most weather models show light to moderate precipitation over Boston on Saturday as well as Sunday morning. While precipitation type remains fairly uncertain now, a wintry mix with accumulating snow is possible.

Extended Forecast

Today: Partly Cloudy. High 32°F (0°C).
Tonight: Mostly Clear. Low 18°F (-8°C).
Tomorrow: Partly Cloudy. High 34°F (1°C).
Saturday: Wintry Mix. High 37°F (3°C).
Sunday: Chance of snow in the morning. High 38°F (3°C).



Situation for Noon Eastern Time, Thursday, March 16, 2017

Weather Systems	Weather Fronts	Precipitation Symbols			Other Symbols
			Snow	Rain	
H High Pressure	Trough	Showers	* ▽	• ▽	Fog
L Low Pressure	Warm Front	Light	*	•	Thunderstorm
§ Hurricane	Cold Front	Moderate	**	••	Haze
	Stationary Front	Heavy	⁂	∴	Compiled by MIT Meteorology Staff and *The Tech*

Students divided on award's ability to challenge status quo

Media Lab, from Page 1

Japan, considered the system "stupidly bad for security and privacy."

> **The $250,000 award will go to an individual or group, anywhere in the world, that is engaging in "extraordinary disobedience for the benefit of society," according to the Media Lab.**

"I protested it," he said. "I got a bunch of people together, and I started marching on the streets, and with megaphones, and went on TV and called the Minister of Information a liar ... I felt very passionate that it was wrong."

Although Ito and the other protestors lost the fight — Japan began using the 11-digit identification numbers in 2002 — it spurred in Ito an interest of cultures where people have permission to question.

Now in an academic setting, Ito hopes to instill those same principles. He acknowledged that with funding and politics, academic freedom can be difficult to come by. However, he tries to support researchers in the Media Lab both financially and institutionally to take such risks.

> **"That's kind of a hallmark of MIT — to be able to have all these people with diverse and somewhat controversial opinions," Ito says.**

The Media Lab is also no stranger to confronting the law. "We run up against certain laws, like the Computer Fraud and Abuse Act or the Anti-Circumvention provision of the DMCA," Ito said, "and they often prevent us from hacking things for legitimate reasons, for security reasons."

Through the award, Ito wants to demonstrate to the younger generation how civil disobedience can be effective and the responsibility that comes with it.

"Part of this is also to try to find a modern person or a group of people doing disobedience in an effective but very principled and creative way so that we can amplify that," Ito said.

Some students have already caught on. Tse Yang Lim, a Ph.D. student at the Sloan School of Management, sees the need for civil disobedience as "greater than ever."

Lim was involved in Fossil Free MIT before he became involved in post-election activism. A year ago, Fossil Free organized a 116-day sit-in outside President Reif's office, one of the longest fossil fuel divestment sit-ins in the country.

After Lim joined Solidarity MIT following the November election, he helped start the Solidarity Pledge as a way to inspire long-term political engagement.

Lim praised the Disobedience Award for bringing attention to a cause he finds important. "If enacting a more just world requires disobeying certain unjust applications of the laws — and my expectation is that such unjust applications of law are on the rise — then it's up to us to do that."

Lim is helping organize the upcoming MIT Day of Engagement Apr. 18. The organizers of the event plan to dedicate a portion of it to civil disobedience and connect it to the Media Lab's award.

However, Sarah Schwettmann, a Ph.D. student in Course 9 who is involved with MIT Resist, was more hesitant about the award and its ability to truly question the status quo. She referenced Aaron Swartz and Star Simpson, two people who previously had encounters with the law, and who some people believe could have been supported by MIT more.

> **It's important "to be disobedient in appropriate ways."**

"There exists a fundamental conflict of interest between institutions whose authority depends on existing power structures and individuals who challenge them," Schwettmann said.

Ito and Zuckerman recognize the limitations of an institution granting an award to someone who may fall outside its community. They will try to consider many types of disobedience, however. In preparing the award, they worked with the dean of the Harvard Law School, Martha Minow, and the youngest-ever winner of the Nobel Prize, Malala Yousafzai.

Even so, there are people whom this award will never be able to reach. As Ito puts it, "there's probably a whole bunch of people who winning an award like this could be the last thing they want."

> **But "there exists a fundamental conflict of interest between institutions whose authority depends on existing power structures and individuals who challenge them."**

Yet the award is just a part of a longer journey on which Ito and the Media Lab are embarking. Through classes, workshops, and talks, people at MIT are finding new ways to promote responsible disobedience.

For some, choosing to be disobedient when society falls short is not a choice. "Every one of us has a responsibility to collectively enact the society we want to see," Lim said. "Denying said responsibility does not absolve you from it — inaction is acquiescence."

The winner of the award will be announced July 21.

Say Hello

To My Little Friend.

Email join@tech.mit.edu or join us for dinner, Sundays 6 p.m. (W20-483)

The Tech is looking for
interactive graphic designers
to join its online media team.

No experience necessary. We'll give you the tools to get you started.

This is a great way to gain **valuable job experience**, **build a strong web portfolio**, and create designs that will be submitted for **national awards**.

Email join@tech.mit.edu or join us for dinner, Sundays 6 p.m. (W20-483)

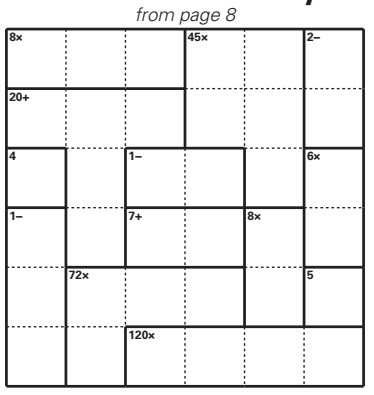
Solution to Snow Day

from page 8

9			6					
6	8		5				4	1
	3			8				
		3		5			6	7
8		6				2		9
7	5			1		8		
				3			1	
1	4				2		7	3
					5			8

Solution to Pi Day

from page 8



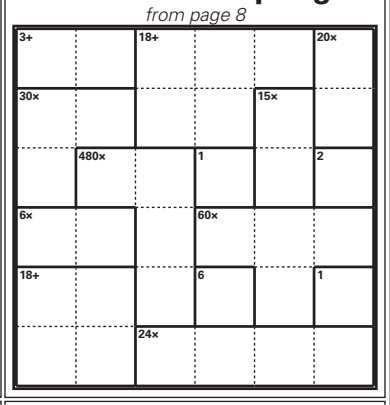
Solution to Winter

from page 8

6						3		5
9		3	1	4		2		6
					3			
	9				7			8
7		5		9		6		2
8			2				1	
			9					
5		9		7	6	8		1
3		7						9

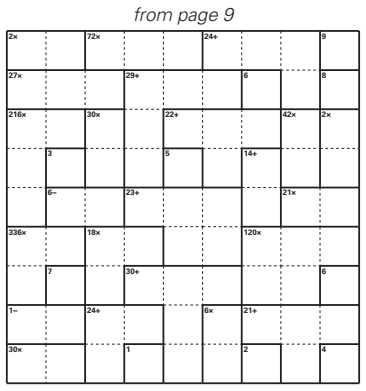
Solution to Spring

from page 8



Solution to Class of 2021

from page 9

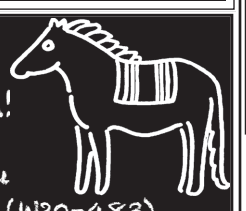


Solution to Double Echoes

from page 9

S	O	C	K		M	A	G	S		K	A	R	T	S
T	H	A	N		A	R	I	A		I	D	A	H	O
A	M	M	O		K	A	R	L		C	A	N	A	L
B	Y	E	B	Y	E	B	L	A	C	K	B	I	R	D
			S	A	D			D	A	M				
M	M	E		H	O	S	T		T	E	A	S	E	R
R	A	T	I	O		T	E	X	T		G	I	L	A
B	Y	H	O	O	K	O	R	B	Y	C	R	O	O	K
I	B	E	T		I	P	S	O		L	O	U	P	E
G	E	R	A	L	D		E	X	P	O		X	E	S
				A	D	D			O	U	T			
T	O	B	U	Y	O	R	N	O	T	T	O	B	U	Y
A	R	O	S	E		M	O	S	T		T	A	M	E
R	A	R	E	R		O	G	L	E		E	S	P	N
S	L	E	D	S		M	O	O	R		M	E	S	S

Can you beat this drawing?
Join Illustrators at The Tech!
E-mail join@tech.mit.edu
or join us for dinner, Sundays 6 p.m. (W20-483)



Deep Distributed

NOW HIRING

FILLING POSITIONS FAST

Are you a highly analytical software developer? Do you have a penchant for tackling big problems that others can't? If so, we are looking for you!

We are a quantitative, data-oriented team looking to hire a key contributor in helping to build large-scale production software systems using Python + Cassandra, Spark, Scala, TensorFlow, etc. Your work would have a direct, immediate impact on the bottom line and future business strategies for our company.

We are located in Hartford, CT and are open to both on site and remote workers. **Expected compensation is $1,000/day** for good work of about 10 hours. H1B, OPT and part timers are welcome.

SEND RESUMES TO
JOBS@DEEPDISTRIBUTED.NET

Funded Public Service Fellowships

pkg center

Grads & undergrads:
> Partner with a community organization
> Intern with a nonprofit
> Launch your social enterprise

Apply by
Fri, Mar 24, noon
More info: pkgcenter.mit.edu

Questions?
Email Alison at hynd@mit.edu.

Priscilla King Gray Public Service Center

The MIT Shakespeare Ensemble presents

The Winter's Tale

directed by Arielle Lipshaw

La Sala (W20-202)
Mar. 17, 18, 23-25: 8pm
March 19: 4pm

sponsored by UA DE FLOREZ FUND FOR HUMOR shass.mit.edu/funny

ensemble.mit.edu/tickets
$5 STUDENTS (MIT, HARVARD, WELLESLEY)
$9 MIT AFFILIATES
$12 GEN. ADMISSION
GROUP DISCOUNTS AVAILABLE

OPINION OPINION OPINION

News should be _____.

tech.mit.edu/survey

TECH TRANSFERS

Stefanie Mueller

Immigrant members of the MIT community

I'm from Germany and moved to the U.S. two months ago to start at MIT as a new assistant professor. One of the great things about working in a research environment is that you are surrounded by so many people from different countries. You hear all their stories, the good and the not so good, which is a daily reminder for me of what a privileged situation I'm in, having a German passport. It's something that many of my friends who stay in Germany all their lives will never be able to appreciate, as they don't know that life can be infinitely more stressful and filled with anxiety if you have a different nationality. And although one would think it should be obvious that everyone deserves the same treatment, we are far from providing everyone with the same experience and rights. I'm glad I can be here at MIT and help grow the international community by putting together a diverse research team.

Stefanie Mueller is an Assistant Professor in the department of Electrical Engineering and Computer Science, joint with Mechanical Engineering.

Editor's note: Tech Transfers is a photo series by Professor Daniel Jackson that features immigrant members of MIT.

COURTESY OF DANIEL JACKSON

Stefanie Mueller, Assistant Professor in the department of Electrical Engineering and Computer Science.

Got a lot on your mind?

Share some thoughts with us!
Write for Campus Life. *join@tech.mit.edu*
Or join us for dinner, Sundays 6 p.m. (W20-483)

MIT CENTER FOR INTERNATIONAL STUDIES
cis.mit.edu | starrforum@mit.edu | Free and open to the public

STARR FORUM

Racing to the Precipice:
Global Climate, Political Climate

March 23 | 5PM to 6:30PM
26-100 Compton Laboratories

NOAM CHOMSKY

Is there anyone you want to shadow for **24 hours**?

We're looking for writers to follow someone around for one day and write about it!

It's a great way to **make connections** on campus!

E-mail join@tech.mit.edu or join us for dinner, Sundays 6 p.m. (W20-483)

2017 Ilona Karmel
WRITING PRIZES
with cash prizes in:

- Essays, poetry, short stories, academic papers
- Science and technical writing
- Writing for the public
- Freshman writing
- Science fiction
- Writing on the visual arts

Categories open to both Graduates and Undergraduates

Complete rules and entry information:
cmsw.mit.edu/writing-prizes

ENTER BY APRIL 3

Comparative Media Studies | Writing

Know something important we should write about?

(*We probably don't know about it.*)

Let us know.

Email join@tech.mit.edu or join us for dinner, Sundays 6 p.m. (W20-483)

CONCERT REVIEW

Just take me to your hideaway

Grammy-winning singer Jacob Collier blows Boston away with another concert

Jacob Collier

Brighton Music Hall

Mar. 13, 2017

By Tara Lee
SENIOR EDITOR

Narrowly missing yet another blizzard, Jacob Collier finally made it to Brighton Music Hall on Monday night after a snowstorm earlier in February forced him to postpone his concert until now. Back in December, he performed at MIT with the MIT Festival Jazz Ensemble, and that concert served as my personal introduction to the incredible world of singer/arranger/composer Jacob Collier. How can someone have so much talent with a voice so pure?

Since then, the 22-year-old has won two Grammy awards for his arrangements of "You and I" and "Flintstones," and I'm not even surprised. Collier is a musician in every sense of the word — he *lives* music through every note he plays, every key he modulates, and every word he writes.

The London-native credits much of his success to Ben Bloomberg, a PhD student under Tod Machover in the MIT Media Lab. After discovering Collier on YouTube a few years ago, Bloomberg reached out to Collier to help develop a vocal harmonizer that allows Collier to harmonize with himself via a keyboard. Bloomberg also plays a large role in the technological complexities behind Collier's one-man show, which on Monday night featured layers of audio looping along with real-time video loops that were projected onto a screen behind Collier.

The concert opened with the gorgeously sultry voice of Joanna Teters, after which Collier took the stage and jumped right into an energetic performance "Don't You Worry 'Bout A Thing." Of course, the Stevie Wonder cover was Jacob Collier-ified with jaw-dropping harmonies and an array of instruments from tambourine to upright bass — every single one of which he ran around playing himself.

In between songs, Collier explained that he set up the concert stage to mimic his music room at home. Filled with guitars, keyboards, and drums, it actually inspired the title of his latest album *In My Room*. Most of the songs performed during the concert were from this album, and my absolute favorite song of both the album and the concert was "Hideaway." Written by Collier himself, it's an exquisitely beautiful song that builds from a pure, solo melody in Collier's lower range and climbs into an angelic pattern of layered harmony. During the performance, he broke into bouts of improvisation with his harmonizer, and as he jumped around and grinned, I could feel his raw passion for music sprinkle down onto the audience.

Other notable songs from the concert include "Saviour," during which he split the audience into halves to sing along to parts of the lively chorus, and "In the Real Early Morning," another gorgeous, mellow song from Collier's album. It was accompanied by equally beautiful visuals in the background that animated in sync with Collier's playing.

Ending the concert on an encore, Collier sang a cover of The Beatles' "Blackbird" on his harmonizer. With its added funky groove, it showcased the epitome of the greatness that is Jacob Collier — even though he shook up some of the original rhythms, and purposefully added dissonant harmonies into the mix, every second of that cover still meshed together perfectly.

It was a chilly evening when I walked into the concert hall, but I left with a heart half-melted. Thanks, Jacob.

RETT WOODS

Two-time Grammy-winning Jacob Collier performed at Brighton Music Hall on Mar. 13.

BALLET REVIEW

A beautiful chaos

Impeccable dance technique brings classical undertones to life

"Artifact"

Boston Ballet Company

Choreography by William Forsythe

Boston Opera House

Mar. 5, 2017

By Isabelle Phinney

Adela and I leave 15 minutes later than I'd planned and walk-jog down Mass Ave towards the Central red line T stop, shoulders hunched against the wind. At Downtown Crossing, we take the stairs two at a time. The sky is the bluest I've seen in awhile.

Inside the Opera House lobby, it's warm, verging on stuffy, and filled with gilded yellow light. We fight our way towards the box office. The theatre is filled with cliques of young businessmen and -women, old couples, and a few scattered families, puffy jackets crammed under seats, hazy conversations, and champagne.

A hush settles gently over the audience. I glance up, confused: the house lights are still on. A woman painted head to toe in pale grey is walking slowly, purposefully across the stage. The stage lighting is harsh, shadows settling in the muscles of her legs, a sharp contrast from the soft yellow light we, the audience, are bathed in. I feel disoriented. If I turn my eyes from the stage, I know I'd be able to see my neighbors' expressions. There's a lack of privacy that's almost uncomfortable.

The lady in grey disappears from view, and we're finally plunged into forgiving darkness, but the typical rustles of the audience settling in are strangely absent. A lady in Victorian dress enters and begins to speak. "Step inside." A single pianist accompanies her. "I think I hear…you say dust…I mean soot, you think." She baffles with clearly articulated words and sweeping gestures. A man with a megaphone enters. In his button down white shirt and fitted suit pants, he reminds me of Chris "Petey" Peterson of admissions blog fame. His words are jumbled but carry a strangely authoritative tone.

I don't know what's going on, and yet somewhere in my subconscious I think I do. Suddenly, the stage is crowded with dancers. They move in units across the stage, filling it with green shadows and military precision. With only the music of the single piano in the pit, we can hear the tap and thump of the pointe shoes clearly, even from our seats in orchestra left row W. The dancers' movements are a part of the music; neither accompanying the other but rather complementing. The curtain falls. I notice my eyes hurt. I think I'd forgotten to blink.

Silence. We wait in darkness, trying to comprehend.

A violin plays two strident double stops. The famous Chaconne from Bach's Partita no. 2. The curtain rises on two pairs of dancers dressed in a vibrant ochre. Their movements follow each other like the subject and answer chasing each other in Baroque counterpoint. The lighting is even harsher than before, casting the dancers as forms of shadows and light, barely human. Suddenly the curtain falls with a thump. A moment later, it rises and the stage is filled with golden dancers. It falls. It rises. They dance. Falls. Rises. Dance. Falls. Rises. Dance.

The house lights brighten slowly. Adela and I gulp in half-formed sentences. "Oh my god." "It's just…" "Amazing."

The house lights are still on, but the dancers have returned, and they clap.

Part III is almost entirely spoken word. I think I prefer the music from parts I and II, but this is certainly nothing like anything I've seen before. The woman in Victorian dress and the man with the megaphone face each other in red chairs. The dancers cluster behind them. The lighting is softer than before, almost natural. The woman is holding a paper. She glances down and begins to argue, almost rapping. The dancers chant. "One and two and three and four and…" The man suggests they take it outside. "I said dust." "You meant soot." "I said dust, but I meant stone." They leave, arguing like an old married couple. The dancers face each other in two straight lines and begin a simple routine, counting aloud in eight-bar phrases. The curtain falls.

Part IV. The piano begins to play, and the curtain rises. The dancers are dressed in green once again, and the lighting is harsh. The woman in Victorian dress steps out, followed by the man with the megaphone. She proclaims. He denies. He proclaims. She argues. The dancers fill the stage. I still have no idea what's going on. He says, "step outside."

The curtain falls. The house lights flicker on. Adela and I turn to each other. "I have no idea what just happened. That was incredible."

"Artifact" is a ballet full of chaos and confusion and blatant violations of tradition, yet settled with musically classical undertones, the impeccable technique of the Boston Ballet Company dancers, and comforting synchrony of movement. Even the venue — the lavishly gilded, French- and Italian-inspired Opera House — contrasted with simplicity of the costumes, minimalist set, and strong lighting to create a sense of unbalance in a traditionally high society environment. Above all, "Artifact" is an incredibly aesthetically appealing piece of pure art. Even without consideration of its intellectual implications, it's undeniably beautiful, engendering conversation and thought without need for conscious argument, gaudy scenery, or elaborate costumes. It's, without a doubt, the best ballet I've ever seen.

DID YOUR MIT ESSAYS GET YOU IN?

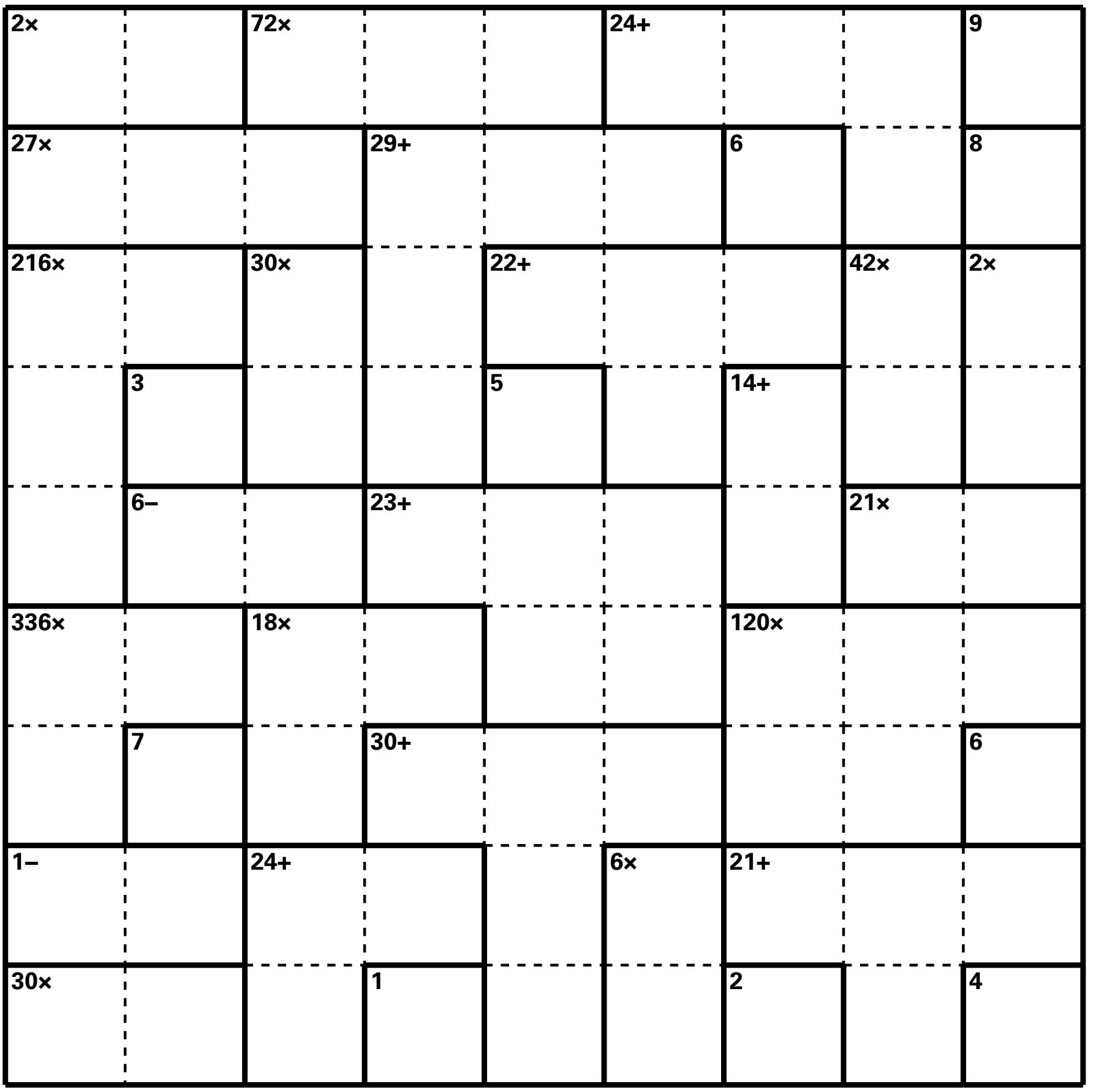
The Tech is collecting successful application essays (**hint:** yours!).

Email your pieces to cl@tech.mit.edu or join us for dinner, Sundays 6 p.m. (W20-483)

FUNFUNFUNF

Class of 2021

Solution, page 3



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.

Double Echoes by Billie Truitt

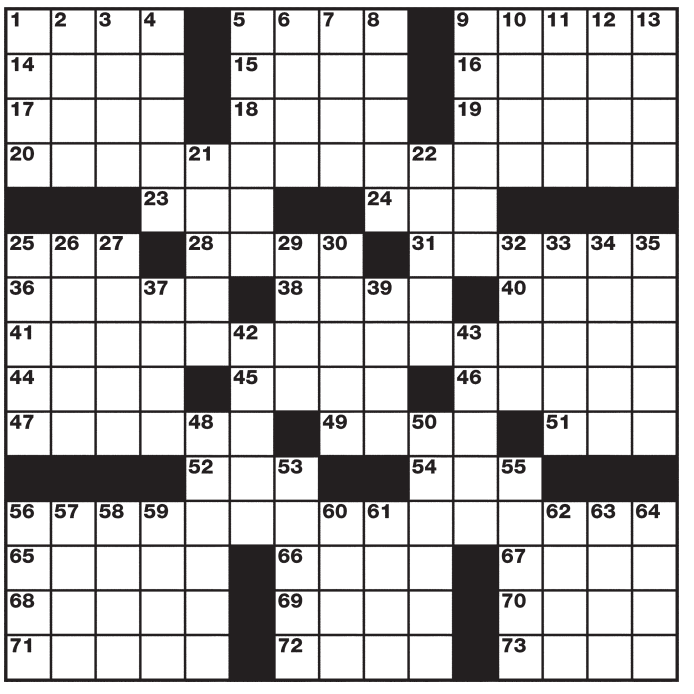
Solution, page 3

ACROSS

1 Argyle, for instance
5 Periodicals, for short
9 Go-__ (kids' vehicles)
14 Comparative word
15 Operatic excerpt
16 Potato state
17 Bullets, for short
18 German philosopher Marx
19 Venice waterway
20 Nostalgic jazz tune
23 Melancholy
24 River project
25 French Mrs.
28 Invitation sender
31 Quick preview
36 Math proportion
38 Smartphone message
40 __ monster (large lizard)
41 In any way possible
44 "A likely story!"
45 __ facto
46 Jeweler's eyepiece
47 President Ford
49 Trade show
51 Crosses (out)
52 Throw in
54 No longer stylish
56 Shopper's dilemma
65 Popped up
66 Lion's share
67 Domesticate
68 Less prevalent
69 Stare at
70 SportsCenter airer
71 Snow vehicles
72 Shrubby wasteland
73 Untidy state

DOWN

1 Wild guess
2 "Good heavens!"
3 Was present
4 Controls on old TVs
5 Squeak by
6 Typical Jordanian
7 Young lady
8 Leafy course
9 Sign on a prank victim's back
10 Just __ (minimal amount)
11 Princess of India
12 "__ she blows!"
13 Found a buyer for
21 Google rival
22 Tart-tongued
25 Top man, informally
26 Noncommittal answer
27 Former anesthetic
29 Discontinue
30 To the point
32 Farming prefix
33 Sitting Bull's people
34 Wed on the run
35 Does some yard work
37 Merest amount
39 Microsoft game console
42 Informal address
43 Persuasive power
48 Oreo's trio
50 Rowling's wizard
53 Tot's TLC dispenser, often



55 Carved pole
56 Covers, as a driveway
57 Word-of-mouth
58 Tiresome one
59 Broken in
60 Scrubbed, as a mission
61 Scandinavian capital
62 Headquarters
63 Foul-ball callers
64 Cravings

FUNFUNFUNF

FUNFUNFUNF

COACH FOCUS

Jen Williams discusses recent softball surge

By Souparno Ghosh
STAFF WRITER

MIT softball had its most successful season in program history last season in which they finished fifth in the Division III College World Series (WS). Along the way, it won its first NCAA Regional, first NCAA Super Regional, and for the first time earned a spot in the WS.

As softball prepares for its 2017 campaign, *The Tech* features in this inaugural edition of the 'Coach Focus' series the person who was at the helm of the team through its incredible run, head coach Jen Williams.

In this first part of the interview, coach Williams talks about the team's magnificent run — from a rough start in spring, to overcoming personal adversities, to reaching the pinnacle of success.

***The Tech*: Let us start at the obvious place — a trip to the College World Series — what was that like for you?**

Williams: Well it was an incredible experience. It was a program-changing experience. The team experienced a level of competition and played at a level that we knew we were capable of. But it is the kind of thing where until you really get there, you don't know whether you can stand up for it, and they did. They discovered through the entire playoff run — through the entire month of May — that they had the athletic ability and the drive to get to that arena. When we got there, they had a good showing, and they showed that they belonged there. We had a lot of people in the softball world and also elsewhere that did not think that MIT could necessarily carry their weight on that stage. We did that and is something the team ought to be very proud of.

***The Tech*: You defeated the defending champions, Tufts, during the regular season. Then you beat WPI in the Super Regional who were 4–1 against you that year. There were some tough matches to overcome. How was the team able to pull through?**

Williams: Beating Tufts was a good experience because we had such a good battle against them in the regional final in the 2015 season at Tufts — taking them to extra innings and we were almost the only team to defeat them that year. It was great to have that sense of accomplishment — playing ball with them and be able to beat them. I would not say it was the first step so much as part of the process. We are a very process focused team and last year was no different.

With WPI in the super regionals it was like the 6th or 7th time we were playing them. [It was like] we finally got this figured out, and this was our time to get this done. We have not been able to do what we were capable of, but this time there was no doubt. I had never seen our team so determined than at any other point. We were just 100% certain that we were going to walk away with those games with victories and they were not going to let anybody stand in their way. It was everything from how they behaved in the bus to how they warmed up to how they came out onto the field to how they played during the game. They dominated the energy of the super regional from start to finish. It was thrilling. It was just an awesome two days of softball.

***The Tech*: Does playing a team multiple times give you and your coaching staff an advantage?**

Williams: Yes, I think so, but the trouble is, it does for the other team as well. The more you get to know the other team's pitcher, the more you get to know the other team's batters you realize how you can defend against them very specifically. Before Super Regional we had a week where we had practices geared towards specific individuals in their lineup. We were able to organize our practices for battling against a specific starting lineup and specific pitchers.

That is also unique about playoffs that you have a week to prepare for one particular team.

We had so much knowledge at that point. Our coach, who calls pitches, had 12 pitch charts taped up on the side of the dugouts that she would look up to see what each batter had done each time one stepped up. We had to be creative and dynamic with the way we played and focused on the moment. That was one of the other good things about WPI [in the] Super Regional. They weren't thinking about the WS. They just wanted to beat WPI. We beat them and suddenly we realized we were going to the world series. That was incredibly thrilling.

***The Tech*: When did you know that team was destined for success? Can you predict such things?**

Williams: It is very hard to know. I knew we had the talent for it. I knew we had the personnel. It was a matter of whether we were going to have the determination and the leadership to do it. We had a bit of a rough year. We had several very serious illnesses to parents of players on the team. That impacted the team in a huge number of ways. That sort of really forced us to decide what the season is going to be about. I talk about focusing on the process.

We *have* to be focused on the now because focusing on anything beyond this is unproductive, it's a distraction.

In spring training in Florida, we faced some good competition and we didn't quite stack up against them. When we got back from spring training and played Williams — that double header was probably one of the first times the team really showed what they were capable of and also sort of started to understand themselves as a team. They knew in theory. But that double header — very close games — to pull those games out — that was the first time the coaches really saw what this team is really made of.

Editor's note: The interview was edited for clarity. The second part of the interview will run in the following issue.

BASEBALL

Engineers baseball splits opener at Texas Lutheran

By Hannah Gaudet

MIT baseball started off the season on Mar. 5 with a double-header against the Texas Lutheran Bulldogs. The Engineers finished with a .500 record after Sunday's games, winning the first 3–2 and dropping the second 4–8. The games showcased an impressive freshman class, featuring catcher Thomas Allison and third baseman Tony Rice.

The Engineers initially fell behind by two runs in the first inning of the morning's game. David Hesslink '17 shut down the Bulldogs after the first, eventually pitching all seven innings and striking out five. He heads home with a 2.0 ERA and a 1–0 record. David Heller '18 hit a sacrifice fly in the fifth inning to bring home the go-ahead run. MIT took charge of the game with two home runs by Jared Schwait '19 and Austin Filliere '18 in the sixth.

In the second game, the Engineers got on the board early in the first. MIT stole two bases and right fielder Matt Johnston '20 drove in two runs with a double to left. The second game was a true test of stamina. The game lasted nine innings, during which five Engineers threw for five strikeouts total. The Bulldogs showed their offensive endurance, putting up eight runs.

A third scheduled game was suspended prematurely due to rain. Jared Tramantano '20 was scheduled to start.

MIT finished last season as ECAC Division III champions and have high hopes for the coming year. The freshman class brings in a lot of new talent to supplement the strong veteran squad. Players are optimistic that they can repeat the success of last year, if not improve on it. Following Sunday's games, MIT received a vote for D3baseball.com's top 25.

Games last week were postponed. This week, the Engineers will travel to Georgia to face a Friday game against Stevens Institute of Technology and a three-game series at Oglethorpe.

Hannah Gaudet is a member of the class of 2019.

Wanna make columns?

Not an architect?

Join Campus Life at *The Tech*!

Email *join@tech.mit.edu* or join us for dinner, Sundays 6 p.m. (W20-483)

ANSELMO CASSIANO—THE TECH

The MIT Shotokan Karate Club revealed its black belt wall last Monday. The names of all athletes who have achieved the prestigious rank of black belt through the club are displayed on the wall.

SPORTSSPORTSSPORTSS

TAEKWONDO

Taekwondo takes second place at Princeton

MIT taekwondo team rolled through opponents at first tournament of the season

By Justin Lim
TEAM REPRESENTATIVE

The MIT Sport Taekwondo team kicked off its spring season at the Princeton tournament of the Eastern Collegiate Taekwondo Conference. With strong showings across all belt groups, the team seized second place with 427 points, their best performance in two years.

The day started off with the *poomsae* competition, where competitors perform a choreographed series of punches and kicks. The team medaled in every division they were represented in, winning two gold, one silver and six bronze medals.

Renee Zhao '18 and Tam Nguyen G displayed stunning side kicks to place third and fourth respectively in the highly-competitive women's black belt division. Frank Fang G and Akwasi Owusu-Akyaw '17 led a dominant performance in the men's red belt division, taking gold and bronze respectively. In the women's red belt division, Nina Anwar '18 produced a strong performance to win a silver medal.

In the blue belt division, Samuel Majors '19 continued his stellar performance this season, winning a gold medal. Emily Zhu '18 showed off her improved power and stances to secure a bronze medal. In yellow-belt poomsae, consistent high-scorers Ali-Amir Aldan '17 and Iris Hwang '20 both took bronze, while Yotaro Sueoka '20 and Malivai Luce G finished in the top 10.

MIT solidified its reputation as a powerhouse in sparring, winning two gold, one silver and two bronze medals. Women's A1 (Elizabeth Pedlow '20, Rachel Connick G, Zhao) blew away the competition and came out on top with gold. Pedlow dazzled at her first tournament as a black belt, putting on strong performances against the league's top opponents. Connick went undefeated, dismantling all her opponents with thunderous body and head kicks. Zhao also went undefeated, pulling off her signature head kicks to win three decisive matches and secure their gold medal. Men's A1 (Nick Hensel G, Ajay Saini '18, Udit Rathore G) powered through injury and sickness, advancing to the round of 16.

After taking gold at two of three tournaments last semester, women's B1 (Anwar, Ashley Wang '17, Sam Amey-Gonzalez '18) once again won gold. Anwar won two matches by point-gap, while Wang held strong even against larger opponents. In the deciding match, Amey-Gonzalez kept her opponent guessing with an arsenal of powerful kicks and clinched the gold in convincing fashion.

Both men's B teams had amazing runs. Men's B1 (Lorenz Baumgartner G, Akwasi Owusu-Akyaw '17, Josh Murdock G) won bronze, while men's B2 (Fang, Manuel Guillen '18, Samuel Majors '19) had a breakout performance, taking silver in a difficult division. Fang and Guillen both landed several beautiful head kicks, and Majors punched opponents well above his own weight, soundly defeating the other heavyweights.

FRANK FANG G

Nina Anwar '18 thows a kick in a sparring match for MIT.

Women's C1 (Hwang, Jaz Harris '18, Melat Anteneh '20) put on an outstanding performance to win bronze, assisted by Harris's incredible cut kicks. Men's C1 (Malivai Luce G., Yotaro Sueoka '20, Aldan) fought a series of tough matches to advance to the round of 16. Fighting in their first-ever tournament, men's C2 (Jakob Coray '20, Kenny Derek '20) held their own against more experienced opponents, advancing to the round of 32.

The team will continue to train hard for the final ECTC tournament of the year, to be held on Apr. 22 at the University of Vermont. MIT will also compete at the National Collegiate Taekwondo Association Championships in San Diego on Apr. 1 and 2, where they hope to continue to excel.

Justin Lim is a member of the class of 2020.

Join us for
MIT COMMUNITY FORUM on
THE ENGINE WORKING GROUPS

Massachusetts Institute of Technology

WEDNESDAY
MARCH 22, 2017
5:00-6:30PM

STATA CENTER
KIRSCH HALL
32-123

FACILITIES ACCESS
TECHNOLOGY LICENSING
CONFLICT OF INTEREST
VISAS FOR ENTREPRENEURS
MIT'S INNOVATION ECOSYSTEM

REGISTER AT: ewg.mit.edu

Remarks:
MARTIN A. SCHMIDT
Provost
ISRAEL RUIZ
Executive Vice President & Treasurer
ANANTHA P. CHANDRAKASAN
Professor & Head of EECS
KATIE RAE
President and CEO, The Engine

Initial Findings from Working Groups:
THE ENGINE WORKING GROUP CHAIRS

Discussion:
THE MIT COMMUNITY